

## **AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraph beginning at page 24, line 18 as follows:

Referring to Fig. 8, a method for clock synchronization across a network includes waiting for a socket-connection between at least two processors across the network 801.

Upon creation of the socket-connection the method collects statistics about the connection, including a measurement of roundtrip delay 802. The method determines a roundtrip-delay threshold 803, where the probability of the round-trip delay being greater than the threshold is about 0.5 and the probability of the round-trip delay being less than the threshold is about 0.5. The method determines a current round-trip delay and an offset 804. The current round-trip delay is added to the statistics, and a new threshold is determined 805. The method determines whether the current roundtrip delay is greater than the new threshold 806. If so, the method determines whether thirty round-trip delays have been determined 811. Upon determining thirty round-trip delays the method enters a synchronization routine. The method may take over from another routine. If thirty delays have not been determined the method determines a current round-trip delay and an offset 804. Upon determining that the current ~~threshold~~ roundtrip delay is not greater than the new threshold 806, the method determines whether the offset is greater than an offset threshold 807. If the offset is greater than the offset threshold the method adjusts a local clock 810, decrementing by an update-interval. If the offset is less than the offset threshold, the method adjust the local clock 808, incrementing by the update-interval. After adjusting the clock, 810 or 808, the method determines a linear regression 809, and continues to determine a current round-trip delay and an offset 804.